

ACCEPT MEMBERS OF ALL TECHNOLOGY SMOKER COMMITTEE

Announce Twenty-One Ushers
To Serve On Evening
Of Big Affair

DATE IS OCTOBER 7

Edward L. Wemple, '33, chairman of the All-Technology Smoker Committee, submitted for approval a list of his selected committeemen to the Institute Committee last evening. This committee which was accepted will take complete charge of organizing the program for the Smoker to be held Friday, October 7.

The committee as accepted is as follows: Richard S. Morse, '33, Assistant to Chairman; Wilber B. Huston, '33, Assistant to Chairman; Roger P. Congdon, '33, refreshments; W. Clinton Backus, '33, publicity; Robert G. Holt, '33, treasurer; Walter R. Duncan, '33, speakers; Duke E. Selig, '33, program; Charles C. Bell, '33, entertainment.

Ushers Named

Ushers for the occasion are also announced as: Sherman T. Leavitt, '34, William Sample, Jr., '34, Edward P. Bromley, '34, Arthur O. Williams, Jr., '34, John B. Dunning, '34, Henry D. Humphreys, '34, Howard L. Reichart, Jr., '34, Walter W. Bird, Jr., '34, Robert Ehenbach, '34, John R. Newell, '34, Louis P. Holliday, '34, Eric Sparre, '34, Paul E. Davis, '34, John T. Burwell, Jr., '34, Richard Bell, '34, Walter L. Wise, Jr., '34, Gorham K. Crosby, '34, Joseph L. Seligman, Jr., '34, Robert M. Emery, '34, and Charles H. Lucke, '34.

The All-Technology Smoker, held especially for the benefit of new men at the Institute, gives another opportunity for freshmen to acquaint themselves with the varied number of activities present at Technology.

Institute Committee Elects L. P. Holliday To Budget Committee

Officers of All-Tech Smoker
Approved By Body In
First Session

Reflecting the general lethargy present at the Institute this year, the Institute Committee held a listless session in Walker Memorial yesterday afternoon. The meeting was called to order by Chairman Richard L. Fosssett, '33, at five o'clock, and the minutes of the last meeting read.

Upon the recommendation of the Executive Committee, the appointment of Louis P. Holliday, '34, to the Budget Committee was approved as well as the request of the Beaver Key to be given an active part in the coming Field Day.

RESEARCH IN COSMIC RAY DONE BY INSTITUTE MAN

Institute Group Goes 5500 Miles On Camping Trip

Ten Institute Men Travel Over
East and Mid-West On
Inspection Tour

Sponsored by the Department of Business and Engineering Administration and under the auspices of the Thorne-Loomis Foundation, Inc., of New York City, ten men from the Institute this summer made a 5500 mile camping trip through the East and Mid-west, visiting industrial plants and historic points while en route.

The group, which was headed by John M. MacBrayne, Jr., '31, left the Institute on June 13 and returned six weeks later after having travelled down the east coast to Birmingham, north to Louisville, across to St. Louis, north again to Minneapolis, and east to Milwaukee and Chicago. From there the itinerary took them to Erie, Buffalo and Niagara Falls, Rochester, Schenectady and Albany, and back to Boston.

Use Special Bus

The entire trip was made in a specially built camping bus which was loaned to the Institute. In addition to an ingenious arrangement which permitted the truck to be converted into a large tent at night, the bus contained a cot and locker for each man, a rather complete kitchen outfit of a stove, ice box, cooking utensils, dishes, and silver, lights for use at night, and two large comfortable seats for riding in the daytime.

A large number of industrial plants were visited during the course of the trip. Inspection trips were made through chemical, steel, cereal, dairy products, veneer, silk hosiery, and a number of other plants, not neglecting a distillery.

Will Sponsor Trip Again

The trip, which was under the general direction of Professor Erwin H. Schell, '12, head of the Department of Business and Engineering Administration, was the second to be sponsored. A similar trip was made during the summer of 1931. It is thought at this time that the department will again sponsor the trip next summer.

Members of the group which made the trip this year were John M. MacBrayne, Jr., '31, Carl A. Ekwall, '33, David M. Nelson, '33, G. Edward Nealand, '31, Henry Rockwood G., Ernest R. Steele, '31, David R. Treadwell, '33, Burton D. Webster, '33, Beaumert H. Whitton, '33, and Donald Brown of Harvard University.

VOO DOO CANDIDATES TO MEET PHOSPHORUS

Refreshments and Free Smokes
Promised By Feline

Phosphorus, the feline of the Voo Doo office, awakening from his dreams of mice and more sleep, yawningly told a reporter of THE TECH of its plans to trap the unwary freshmen into entering competition for positions on his staff.

Cigarettes, tobacco, corn cobs, cigars, doughnuts and cider will be passed out free at Voo Doo's annual mass meeting and fest. The date of this amazing mass meeting will be announced later by placards on the bulletin boards throughout the Institute. Till then the management of Voo Doo requests that the freshmen hold their hats, if they have any.

DR. BENNETT, BACK FROM TRIP, TELLS OF SUMMER WORK

Technology Professor Describes
Apparatus Cosmic Ray
Survey Uses

Scientists still differ as to the source of cosmic rays, said Professor Ralph D. Bennett, who has been associated with the cosmic ray survey of Dr. Arthur H. Compton. In an interview last Wednesday Professor Bennett told THE TECH reporter that although Dr. Compton had obtained data which agreed with that of the famous Swiss balloonist, Professor Auguste Picard, in indicating that cosmic rays had a terrestrial origin, Professor Robert A. Millikan has not changed his first opinion of their creation by the formation of new atoms in empty space.

Verifies Dr. Compton

Professor Bennett thought that this difference in viewpoint was a result of the irregularity of some of the data at the disposal of the scientists. He disclosed that his own data did not warrant a conclusion on the matter, but the ray intensity curve he drew seemed to agree with Dr. Compton's.

The instrument used to secure data on the intensity of cosmic rays consists of a gas chamber. A compressed gas is introduced into this chamber and isolated from the atmosphere by a lead or copper shield. The highly penetrating cosmic rays pass easily into the gas through the metal shield and cause some of the atoms to ionize. The intensity of the rays is measured by the number of ions produced per second. The rate at which ions are produced is determined by the aid of an electrometer. Sometimes the insulation in the apparatus leaks, and causes the experimenter to obtain ex-

(Continued on page four)

Infirmiry Plans Part Test For Undergraduates

Over One-Third of the Student
Body Sign Up For
Examination

Electrocardiac examinations to detect weak hearts will be this year's innovation at the infirmiry. Dr. L. W. Crokes, of the Infirmiry, states that all track candidates and crew men will be given examinations before real competition begins. Until recently a heart test of this type cost almost ten dollars to conduct, but Dr. Crokes is of the opinion that with modern methods it will not cost the Institute quite so much. The benefits of a thorough examination of the over-worked heart of an athlete have been proven by experience, and they are to be extended to all students of the Institute free of charge. Any questionable hearts detected in the physical examination at the Infirmiry will be immediately subjected to an electrocardiac examination which will definitely settle the question of their owner's eligibility for athletics and military training.

Since school opened, 832 students have signed for physical examinations and over 500 of these have been conducted. So far, the health of the undergraduates has been excellent, as there are at present only eight staying in the Infirmiry, all of which are minor cases and soon to be discharged.

Managers of different sports have been notified concerning substitution of sports for physical training. The lists are open today and will close October 21. All Freshmen desiring to make this substitution are expected to make their application in room 325 Walker Memorial before closing time.

Fassett To Address First Mass Meeting of T. E. N. Tonight

Call Made for New Candidates
By Institute Scientific
News Magazine

Mr. Frederick G. Fassett, Jr., in charge of the publications class for first year men, will be the principal speaker at the T. E. N. mass meeting to be held tonight at five o'clock in the Grill Room of Walker Memorial.

The first part of the meeting will consist of talks by various men on the board, explaining the work of the different departments, after which refreshments will be served, and an opportunity will be given to meet the heads of the departments of the paper.

According to a statement by one of the men on the managing board, the Tech Engineering News, now entering its fourteenth year at the Institute, has gained the reputation of being among the foremost in its line, although one of over twenty similar publications. It offers to the new candidate a chance to acquire experience in the publication of a magazine, in writing, and also to make valuable contacts with leaders in business.

While many college engineering journals contain articles written mostly by undergraduates and recently graduated alumni, the Tech Engineering News prints articles by prominent men outside the Institute. These articles are generally current with new advances in engineering lines.

FRESHMEN PROMISE VICTORY IN ANNUAL FIELD DAY EVENTS

Earlier Date of Classic Day
Necessitates Faster
Organization

SOPHOMORES CONFIDENT

Promising to be the eighth victorious entering class on the annual struggle between the sophomores and freshmen on the traditional Field Day, the Class of 1936 is already beginning its organization to that end. Officially the freshmen will begin their planning with a mass meeting next Tuesday when they will hear the various coaches and learn the Institute's cheers.

Since the inauguration of the present style Field Day in 1901 to settle the customary differences between Sophomores and freshmen, the entering classes have always found it difficult to organize and hence have been at a disadvantage on the day of the struggle. Occasionally, as in the case of the Class of 1934, an entering class has aroused enough spirit to overcome all hindrances and win the now classic event.

The present Juniors were successful for two years in succession on Field Day, defeating the Class of '33 by a score of 11 - 2 and the Class of '35 by a score of 13 - 0. Members of the entering class promise that their record will equal if not better, this one.

Error In Field Day Date

Inasmuch as the date of Field Day has been set for October 28 by the Institute Committee, not November 4 as stated in the T. C. A. handbook, it is necessary that both contending classes organize earlier. For that purpose all Juniors, Seniors and Graduates interested in coaching both the freshmen and sophomore tug-of-war and football teams are urged to see William Sample, Jr., '34, next Monday at 5:00 P. M. in the track house.

It has been the custom in past Field Day preparations for members of the two upper classes to act as coaches for the contending teams in football and the tug-of-war. The seniors are accustomed to coach the Sophomore teams and the Juniors coach the first year teams.

Football Counts Most

Of the five events listed for Field Day competition, football counts most toward the final score, being valued at four points. This event originally carried a point value of five points, but in 1929, when the class of 1933 had obviously outclassed the class of 1932 in the glove fight, which carried no point value, its value was reduced to four points and the extra point was awarded for the glove fight in the following year.

Crew and track relay are equal in value toward the final result, each carrying three points. The track men are coached by Oscar Hedlund, th

(Continued on page three)

Field Day To Be Held Oct. 28; Handbook Wrong

Field Day will take place Friday, October 28th. The misunderstanding about the date of the field day was settled yesterday by the members of the Faculty, who voted that the academic exercises of the Institute will be suspended at twelve o'clock on that date. The date announced previously was November 4th. This date was carried by the Christern Association's handbook by mistake. This change brings the Field Day just one week sooner.

T. C. A. Holds Articles

Lost At Freshman Camp

The following articles were found at Camp Massapoag last Monday after the departure of the freshmen:

- 2 baseball gloves
- 2 bathing suits
- 3 hats
- 1 necktie
- 1 pair of pajamas
- 2 pairs of running trunks
- 1 pair of socks
- 1 handkerchief
- 2 shirts

The men who lost any of these articles are requested to reclaim them at the T. C. A. offices in the basement of Walker Memorial.

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The Tech
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Undergraduates
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VOX POPULI

A COLLEGE newspaper no more than a metropolitan daily can exist without some contact with its readers. A silent audience is just as embarrassing to an editor as it is to an actor or a musician. Some comment, either critical or complimentary, is desirable. If it be criticism, the player can make an attempt to correct his faults; if it be complimentary, he knows his efforts are appreciated.

It has always been the policy of THE TECH to open its columns to anyone wishing to discuss questions which may be of interest to the student body or to call the attention of Technology men to something of interest. But few restrictions are placed on letters to the Editor which are published in the Open Forum: to protect ourselves it is necessary to ask that all letters be signed, although names are withheld on request; matter of a libelous nature cannot be published; letters of an advertising nature cannot be used for obvious reasons; and communications must be of a reasonable length.

With these few limitations we throw our columns open to our readers. There is no restriction of contributors or subject. We welcome communications from anyone on any subject of student interest.

DEPRESSION PRICES

WITHIN the past few days there has been some discussion among certain members of the upper classes regarding the status of the Junior Prom usually held each March. Last year at a meeting of the Institute Committee after the Prom, the question of whether the Undergraduate Association through the Institute Committee should be financially responsible for the Prom this year was discussed. Because the Prom no longer had an appreciable reserve and because attendance had fallen off consistently for some years it was decided that the Prom would not be sponsored as an official activity with the status it had in previous years. It was informally agreed however, that a Prom was desirable.

The question soon to be settled, and the one giving rise to the discussion at this time, is whether the Prom Committee shall be appointed or elected as in previous years.

Technology holds few social functions of a large or elaborate nature, and to drop the sole remaining one seems foolish if we are interested in having such an event. Admittedly, the Proms of the past few years have suffered from decreasing attendance, but the thickness of student pocketbooks has decreased even faster. Almost everyone to whom the subject of a less expensive Prom is proposed agrees that there is need of a large and more or less elaborate social function during the school year and that he would attend if the price were lower than that of last year's Prom.

Agreed then that we want a big dance during the spring and that it would probably be a success, there is no reason why we should not have one. The Institute Committee should continue its sponsorship of the affair under the same arrangement as in previous years and with an elected committee. It is a recognized student affair, run by the undergraduates for their entertainment; so if there is a deficit, let the reserve for contingencies carry it.

We want a Prom. Let's have it, and at a price we can afford.

THE MERRY MONTH OF MAY

WHILE May is still far in the future, it is not too early for some consideration to be given to the matter of holding Open House so that the public of Greater Boston may see an actual demonstration of what is done at the Institute. Year before last the Combined Professional Societies assumed practically all the responsibility for Open House and reports indicated that the occasion was the best ever held. Last year there was no Open House because the year previous it was decided that to continue on an annual basis would in time decrease the value of the occasion.

Whether there will be an Open House this year should be decided at some time in the immediate future, and as the first action should come from some student organization the Combined Professional Societies or the Institute Committee as the logical groups should decide whether either of them wishes to sponsor the affair and assume the responsibilities if it is found feasible to have Open House this year.



It Isn't Often . . .

that the metropolitan papers print news of Technology. The three thousand students and scores of professors of the Institute depend on

The Tech
Established 1881

the official undergraduate newspaper to furnish them with all the happenings of a busy school. In all fields, scholastic extra-curricular, social, sports, and general news, THE TECH continues to present the latest and most interesting occurrences of the day. Accuracy and good taste govern all of its columns. No wonder that it stands today among the foremost of student activities, "written by Technology students, of Technology students, for Technology students."

Here is an opportunity to join an activity that has already earned a distinguished place in the life of the Institute. Here is an opportunity to make contacts with all important members of undergraduate life, as a member of the newspaper staff.

Act Now! There are still positions open in all departments for bright, ambitious men. Drop into the office in Walker Memorial at any time and talk things over. Your life at the Institute is not complete without participation in an activity.



Action In Glove Fight Last Year

VARSITY SOCCER PRACTICE BEGINS

Many of Last Year's Freshman Team Report; Squad of Forty Men Out

Headed by Captain Gustave E. Kiddé, '33, the Institute soccer team is beginning what appears to be one of the finest seasons that it has ever experienced since the founding of that sport here at the Institute, judging by the enthusiasm of the players. In a statement to THE TECH, Captain Kiddé said that the fact that there was a squad of forty men so early in the season, the largest that he could remember, coupled with the addition of such last year's freshman stars as Bemis, Ballard, Waram, Mather, and Forsberg, pointed to a great season for the Cardinal and Gray.

Although faced by a difficult problem in the form of the vacancies left by Ex-captain Velez, South American star, and Newman and Schultz, Coach Edward Robinson should face little trouble in picking replacements from Kron, Brockman, Baur, Kaiser, Hetzel, and Bateman, all veterans, together with the freshman material already mentioned.

As the schedule includes a lot of games away from home, the team will take a lot of trips, so that the season will be highly enjoyable for all members. Practices are held from 4 to 6 o'clock in the afternoon at Coop Field. All those who are interested in coming out for soccer should see Manager Harold E. Thayer, '34.

Fifty Freshmen Try For Field Day Crew

Fifty-odd freshmen are industriously working out on the rowing machines to get themselves in shape for the coming Field Day battle on the 28th of October. With last year's varsity men helping him out as temporary coaches, Al Dunning hopes to get the men on the water in a week's time.

So far, nearly a dozen first year candidates have admitted previous experience in the fine art of rowing, and form the nucleus of what promises to turn into an exceptionally strong squad. There also seems to be an air of considerable enthusiasm around the boathouse that bodes ill for their Sophomore competitors in the annual seven o'clock race on the Charles.

This seven o'clock in the morning bugbear, it is rumored, served to scare off numerous other would-be candidates, but it also proved to be a kind of entrance examination for the sport. As one husky oarsman put it, rowing is a man's game. So, for that matter, is getting out of bed an hour or so after daybreak.

FRESHMEN EXPECTANT OF FIELD DAY VICTORY

(Continued from page one)

Institute's track coach, with the assistance of several upperclassmen. Each of the twelve men composing the team is required to run a half a lap around the cinder track. In last year's event the class of 1934 outclassed the 1935 men conclusively, leading them by 200 yards.

Few See Crew Race

While the track event comes at the height of the day's excitement, the crew race, although quite as spectacular, is viewed by comparatively few spectators. Coming as it does in the early morning before most of the students are out of bed, it is only those who arise with the dawn or those

who have remained awake throughout the night that have the opportunity to cheer their team or proteges.

The tug-of-war is the shortest, but not the least exciting of the several events, for throughout its short endurance, the non-partisans of each of the contending classes are literally tearing their tonsils apart.

Last but not least on the program is the glove fight in which all members of the respective classes can give vent to the enthusiasm which he has stored up during the preceding events. It is largest in number of contestants but smallest in point value, one point going to the class capturing most gloves. While a team may be losing in tabulation of the other events, a victory in the glove fight means a moral Field Day victory if not an actual one.

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Amusements

STAGE

Plymouth — "Reunion In Vienna," with Lynn Fontaine and Alfred Lunt. The Theatre Guild's production of Robert Sherwood's play. Beginning Monday, Jane Cowl in "The Man with a Load of Mischief."

Shubert — Last week of Ed Wynn in "The Laugh Parade." Starting Monday, "The Cat and the Fiddle." Music by Jerome Kern.

Colonial — "The Green Pastures." The epic of the negro. Worth your time.

SCREEN

State — Beginning today, Laurel and Hardy in their first feature length picture, "Pack Up Your Troubles."

Majestic — "Strange Interlude," with Norma Shearer and Clark Gable, beginning Monday.

Keith's — On the screen, "Once in a Lifetime." On the stage, Gus Edwards and Co.

Orpheum — "Grand Hotel," at popular prices.

PLEDGE LISTS

In the Wednesday, October 5th, issue of THE TECH, a list of the pledges to Greek Letter fraternities will be published. A list of the pledges of each fraternity must be in the News Room box by 6 o'clock Tuesday night if it is to be published.

T. C. A. Book Service

Books listed in this term's General Bulletin will find a ready market at the T. C. A. book exchange in the basement of Walker Memorial at two-thirds cost price. There has been an exceptionally large demand for second hand books this year.

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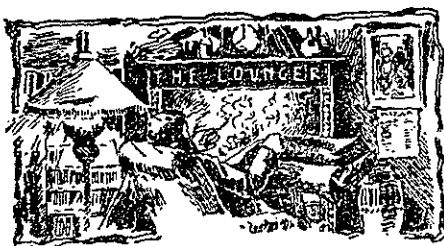
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Every night (except Sunday), Nat Shilkret's
Orchestra and Norman Brokenshire.

Chesterfield

— THE CIGARETTE THAT'S *Milder*
THE CIGARETTE THAT *Tastes Better*



Among the many strange tales of the rushing season which we are to hear, comes from another of those Beacon Street hangouts.

The rush man in question was Southern, and, in common with his fellow countrymen, had sad illusions of grandeur as concerned his relative Lotharioness. At least it seemed that way if one listened to the conversation of this honey-tongued Casanova.

Toward supper time there came an irresistible desire to call Wellesley, perhaps the mating instinct, the lounger doesn't know, although he knew no one there. And so he called but had no dime. The rusher being at hand, promptly proffered his, and so the call went, except that these was no answer.

The operator informed our hero of this, returning his dime, which he promptly pocketed and then proceeded to ask the operator for the same. "I'm sorry," said the operator, "Perhaps if you will put a nickel in, it will come out."

Once again a good brotherly nickel clinked into the machine's innards, this time taken from the cigarette box, handy to the phone. Again the brotherly coin popped out, of course without the dime, only to take its place in the rushee's pocket.

Having thus satisfied his mating instinct the incorrigible one wended his way downstairs to take his place smilingly at the dinner table, and prate smoothly on about his past affections. — Was I flabbergasted? Just ask me, was I flabbergasted!

Incidentally gentlemen, if such you are, there is a most intriguing book-seller working in the Coop. However the lounger is unable to elicit any response to his numerous abjurings. Nice psychology in there, in there, in there, you Coop managers.

Beau Whitton, our handsome editor bemoans loudly with many gnashings of hair and tearing of teeth, the fact that his one pet goldfish, inseparable pal of more than a year, has died. Not only that, but Beau clamors for a verdict of murder.

Several of the Institute's best scientists have finally discovered that some low down dastardly dastard put bay rum in the bowl.

Well, as I always say, that just goes to show you how it never rains but it pours. First school opens and now Beau's goldfish is murdered. My, my.

Another of the shy Freshman stories has just popped in the office. It seems that the rushing committee walked up to this poor goop and shook hands introducing each other all around. Talk progressed, the boys were hot on the make, when suddenly the captured one shied up. Was the cause lost? No indeed. Said the Freshman: "By the way, am I supposed to be talking to upperclassmen?" Hell, no, stupid, shout at them and grab the pledge pin out of their hands.

T. C. A. Distributes Annual Blotters

For eight, consecutive years the T. C. A. has given away free 2500 desk blotters yearly. They are delivered to the dormitories and fraternities, but others who desire them must secure them at the T. C. A. office in the basement of Walker Memorial.

This year the blotters have been changed in respect to color and are printed on a thicker and finer paper. John T. Cheney, '35, is in charge of the distribution of the blotters this year.

AMHERST RELENTS

The kid brother can no longer take the Amherst Senior's car to prep school, for with a new ruling that was recently announced. Seniors and Juniors with passing averages can have cars on the campus.

Many Changes Made In Technology During Summer; 100 Rooms Involved

New Eastman Building Opened; Chemical Store Rooms Are Changed

Besides the transfer of the entire Graduate Physics and Chemistry Department to the new Eastman Research Building, (Building 6), many changes have been made in the entire educational plant during the summer months, and a survey shows a total of about 900 rooms in the Institute. The reference books in Physics, Chemistry, and Mathematics have been transferred to the new Eastman Library in Building 6, and it is planned to move the Mining and Geology Libraries to Room 8-304 sometime this fall. The Institute has been especially generous in making these moves as the space left has been made into study rooms for candidates for the Doctor's Degree.

Storage Rooms Moved

The Chemical storage rooms have been moved nearer the supply elevator in Building 4, a new room being built at the south end of the top floor of the same building, and the Blue Print Service has been transferred to the Photographic Service in the basement of Building 11, with a new machine for giving black and white prints.

The following are the laboratories which have been changed: The Organic Chemical Laboratory (4-440) has been enlarged so as to take care of the work which was previously conducted in 8-410.

Mining Facilities

The Heat Treatment work has been moved from 1-311 to 8-410, and additional facilities provided for the expansion of the work in Metallurgy and in Physics of Metals.

The major portion of the basement of Building 2 has been assigned to the Department of Chemical Engineering for the much needed expansion of its laboratories.

Additional laboratory space has been provided for the growth of Ceramics and for the development of an undergraduate Physical Laboratory for Atomic Structure and Spectroscopy. A laboratory for Geophysics has been added.

Biology in 3-410

Part of the Drawing Room 3-410 has been appropriated for the increased work in Biology; the Department of Electrical Engineering has been given more research space, and the Civil Engineering Department now has a laboratory for research in Seismology.

In connection with this general re-allocation of space there have been numerous changes in offices, among which may be mentioned a new office on the second floor of Building 3 for the Dean of Science, and also new offices for the Headquarters of the Departments of Chemical Engineering, Mining Engineering, Chemistry, and Physics.

About 100 rooms were involved in the changes in this re-allocation of space, together with the remodeling of some of the laboratories.

Fencing

There will be a meeting of the varsity fencing team in the Walker Memorial gym Tuesday night at 5 o'clock.

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Premiums Offered In Catholic Club Membership Drive

Religious Organization Points to Record Enrollment this Autumn

Rewards are being offered this year to men in the Technology Catholic Club membership drive. After reporting next Monday outside the Information Office, all men interested will be divided into teams of four, receive their instructions, and go out after members, until five o'clock, Tuesday, October 11.

The records of the teams and each man on the team will be announced on the day after the contest closes, when awards will be presented to the three teams and two individual men who have signed the most new members. The winning team and winning man get free admission to all the dances and communion breakfasts given by the Club; the second team and man will have free admission to all the dances; and the third team to all the formal dances.

Posters are now on all the large bulletin boards regarding these prizes. The Catholic Club, already the largest undergraduate club, expects to make this year's a record-breaking enrollment.

STATEMENT OF OWNERSHIP

Statement of the ownership, management, circulation, etc., required by the Act of Congress of August 24, 1912.

OF THE TECH, published tri-weekly at Cambridge, Massachusetts, on October 1, 1932.

Before me a Notary Public in and for the State of Massachusetts, personally appeared David B. Smith, who, having been duly sworn according to law, deposes and says that he is the Business Manager of THE TECH and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form to wit:

1. That the names and addresses of the General Manager, Editor, Managing Editor, and Business Manager are: General Manager, John G. Hayes; Editor, Beaumont H. Whitton; Managing Editor, Dayton H. Cleveland; Business Manager, David B. Smith, all of Cambridge, Massachusetts.

2. All equipment owned by the Tech Trust Fund, Cambridge, Massachusetts and rented by the current volume. Officers: Mr. H. E. Lohdell, M.I.T., Cambridge; Mr. H. D. Peck, Pawtucket, R. I.; Mr. J. R. Killian, Jr., M.I.T., Cambridge; Mr. A. W. K. Billings, Jr., Boston, Massachusetts.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) NONE.

4. That the two paragraphs next above giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is —

(This information is required from daily publications only.)

DAVID B. SMITH, Business Manager.

Sworn to and subscribed before me this twenty-ninth day of September, 1932.

WILLIAM JACKSON, Notary Public. (My commission expires October 31, 1935.)

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DR. BENNETT BACK FROM SUMMER TRIP

(Continued from page one)

cessively large intensities. Professor Bennett told of an incident of this sort with Dr. Compton.

Ion Burst Causes Disagreement

A phenomena which has caused much discussion and some disagreement is the ion burst. Occasionally the number of ion pairs in the chamber jumped from the usual rate of one or two per second to from three to seven million, but only momentarily. In a letter to the editor of the *Physical Review* Dr. Compton states that the, to him, only suitable explanation for these ion bursts, as they are called, is the sudden disruption of the nucleus of an atom.

The flying protons would cause all of the ionization which so suddenly occurred. When asked to corroborate and explain this version of the ion burst, Professor Bennett said that the bursts had first been observed in Germany, that they were infrequent, occurring only once in about an hour and a half, that their intensities varied, and that that was all he knew definitely. He indicated that the data were insufficient for a rigid conclusion, and that he thought Dr. Compton's explanation was not intended to be final.

Frequency Increases With Altitude

Although the frequency of the ion bursts seemed to increase with the altitude, their intensity did not, as the intensity of the rays themselves did. To find this out was one of the objects of the survey with which Professor Bennett was associated.

The investigators found that besides increasing with the altitude the rays also increased in intensity with the latitude. Dr. Compton thinks this is caused by the Earth's magnetism. The strength of the rays was also observed to be different at night than during the day.

Musical Clubs To Bid For New Men At Big Gathering

Many Concerts and Dances Are Scheduled for Year by Managers

As a means of offering a chance to enter the social life of the Institute, the Combined Musical Clubs are holding a mass meeting in room 10-250, at five o'clock next Monday. All men interested are urged to come and learn of the various opportunities open in the Musical Clubs by the leaders of the different departments, chief among whom will be General Manager, John Streng, '33, Concert Manager, Omar H. Somers, '33, and Coach William Weston, veteran of many years with the Glee Club.

The Musical Clubs will present this year, as they did last year, two or three concerts in the Walker Building, one of which may come this fall, the others in the spring. Engagements are also being made for concerts in and around Boston, one of these coming at the Franklin Square House, a girls' dormitory, around the first of November.



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